

ABSTRACT OF THE DISCLOSURE

A display device, comprising: a pixel array unit having display elements formed in vicinity of intersections of signal lines and scanning lines arranged in length and breadth, image pickup units and an output unit which outputs  
5 binary data corresponding to image picked up by said image pickup unit; a image pickup device provided separate from said image pickup unit; a first image processing unit configured to generate multiple gradation data based on  
10 multiple binary data picked up by said image pickup units based on multiple image pickup conditions; and a second image processing unit configured to receive either the image pickup data picked up by said image pickup device or the multiple gradation data generated by said first image  
15 processing unit, to conduct a prescribed image processing.